CONRAD

CONRAD S.A. POLAND 80-605 GDAŃSK SIENNA 45

Conrad Classic 58

m/y Gentleman

as built specification

January 2008

builder & project owner

Conrad Shipyard
Gdańsk, Poland

design & naval architect

Yacht Studio Strawiński
Sopot, Poland

1.1. The yacht

Conrad Classic 58 has been designed as a classic, true traditional style motor yacht. She has steel hull and deckhouse and decorated with teak wheelhouse. Stylish stainless or chromed fittings add for a classic image of the yacht. Rich and best quality only equipment and arrangements make her a comfortable yacht for a true gentleman and provide a touch of luxury on board. Twin engines and a bow-thruster make her very easy to handle in crowded marinas.

Big tank volumes provide range exceeding 2000 Nm what makes Conrad Classic 58 perfect for middle range cruising on Baltic and Mediterranean Sea as well as for long range cruising on Ocean waters. The hull construction has been calculated according to Lloyd`s Register Rules and Regulations for an operating range G6.

1.2. Main characteristics

Length Overall	Loa	17.68	m
Length Waterline	Lwl	15.80	m
Beam (moulded)	B	4.70	m
Freeboard (min)	Fb	0.85	m
Draft	T	1.43	m
Displacement	D	36,50	t
Speed (cruising/max)	v	8.5/10.00	kn
Tanks volumes	fuel tanks	5 980	l
	fresh water tanks	5 236	l
	sewage tank	569	l
Range		2 000	nm
Main Engines	Yanmar 4JH3-DTHE	2 x 125	HP
Generator	Mastervolt Whisper 16 Ultra	16	kW
Classification	Lloyd's Register 100 A1 SSC Yacht Mono G6 hull class CE category A certificate issued by LRS		

2. Hull & superstructure

2.1. Hull

The hull is fully welded of shipbuilding grade mild steel.
Round bilge shallow draft hull with dumb prow and a long classic aft overhang. Nicely concave sheer-line and a rounded stern for a classic look.
Watertight engine room provides space for generator, pumps and air condition unit. Behind the engine room there is a watertight afterpeak containing hydraulic gangway and rudder arrangement.

Main scantlings:

Topsides plating	4 mm
Bottom plating	4 mm & 5 mm
Frames	FB 100x8 spacing 800 mm
Longitudinals	FB 40x5 spacing 300 mm
Bottom transverses	pl. 5 mm FL 50x5
Bottom girders	pl. 5 mm FL 50x5

2.2. Superstructure

Superstructure and wheelhouse built of marine grade mild steel. Window coamings, companionway coamings are built of stainless steel for corrosion reduction.
Wheelhouse with teak trimming, equipped with two sliding doors – one each side, and a companionway sliding hatch aft leading to the flybridge.

3. Main engines & propulsion

Twin main engines Yanmar 4HJ3-DTHE (125 HP) with KMH4A1 gearboxes are installed aft. The engines are connected to KMH4A1 reverse gearboxes and placed on elastic mounts..
Two 40mm shaft lines with 5-bladed propellers from Amartech.

4. Rudder arrangements

Twin profiled spade rudders welded right behind the propellers for better efficiency. Hydraulic rudder machine from Vetus, three control positions: main in the wheelhouse and two wing stations on flybridge. Additional maneuverability is provided by bow thruster.

5. Anchor & mooring

5.1. Anchor arrangement

Toplicht 50 kg main anchor placed in a stainless steel hawse pipe welded in the centerline against the stem. The anchor is equipped with 110 m of 12 mm anchor chain. Electric anchor windlass operated from the wheelhouse. Spare anchor stored in the aft-ship.

5.2. Mooring Equipment.

The yacht is provided with eight stainless steel custom made mooring bollards and eight stainless steel custom made mooring oval fairleads installed in the bulwark. Classic stainless steel or good quality chromed fittings throughout the vessel. Custom built round fairleads of stainless steel pipe are welded in the centerline of bow bulwark for towing purposes.
Four electric capstans by Maxwell make mooring easy and comfortable.

6. Deck equipment

6.1. Hatches, windows, companionway & outside doors

The yacht is equipped with traditional teak skylights where the opening flap is Foresti & Suardi brass chromed hatch (7 units).
Big windows are built of thermo-glass double layer with 6 mm gap between the panes. The glass is glued into a recess in the construction and finished with mahogany varnished frames.
Glass thickness:

- Wheelhouse front windows: 10 mm tempered+ 6 mm gap + 2x3 mm
- Wheelhouse side windows: 2x3 mm + 6 mm gap + 2x3 mm
- Superstructure sides and aft: 2x3 mm + 6 mm gap + 2x3 mm

Front wheelhouse windows are equipped with electric wipers.

6.2. Bulwark , stormrail & handgrips

The deck is surrounded with a steel bulwark which is raised fore and aft. The bulwark is capped with a varnished teak rail-cap, traditional storm-rail stanchions in stainless steel with a teak rail-cap on top. Middle line stainless steel wire. Both sides in the aft part of the yacht are opening parts to access bathing ladder and tender.

6.3. Teak deck & gratings

Main deck is fully covered with teak planks glued with Sikaflex system. The fly bridge is covered with teak planks, roof covered with anti-sliding paint.

6.4. Deck tables, benches

All deck benches are built in teak, verticals and trimming varnished, the seats unpainted. Benches aft and fore are hinged and can be flapped up to provide access for mooring. The benches at fly bridge contain lockers under the seats.
Space for loose teak furniture (table & 6 chairs) provided under the bimini.

6.5. Mast , funnel, tender crane

Fiberglass funnel with stainless steel decoration fittings gives truly traditional look. Behind the funnel and attached to it there is stainless steel pipe mast with stainless steel wire shrouds.
Funnel is equipped with hydraulic lifting system to provide lower total height of the vessel allowing easy passage under low bridges when sailing on the river.

Mast of the yacht has been provided with satin varnished teak boom completely rigged for tender launching. Tender is handled with wooden blocks and small capstan. Small classic GRP rowboat finished with teak is stowed on the cradle mounted on the superstructure roof with stainless fittings and deck-plates for tender lashing.

6.6. Bimini, camels & gangway

The entire area of the aft deck is covered with a bimini installed between two elegant camels. The camels are built of stainless steel pipes and stainless steel fittings. Tops of the camels are in varnished teak increasing classic look of the boat.
Thanks to hydraulic gangway and side ladder boarding is easy in every condition.

7. Painting System

7.1. Topsides: faired and painted with International system, color: Mauritius, high gloss.
7.2. Underwater body painted with International barrier and antifouling system, color: black.
7.3. Main deck under teak system by Sikalfex
7.4. Steel superstructure vertical walls: faired and painted International system, color: Oyster, high gloss.
7.5. Steel construction inside epoxy, color: cream .
7.6. Teak trimming outside varnished with International varnish, high gloss/satin.
7.7. Funnel, Reichhold system for fiberglass, color yellow, high gloss.
7.8. FW tanks, sewage tank inside, International epoxy for tanks.

8. Interior equipment & furniture

8.1. General

The yacht has three cabins (one double Owner and two double/twin Guest cabins) with extra bathrooms with showers, galley adjacent to main saloon and wheelhouse.
All furniture and interiors are in traditional classic style emphasized additionally by furniture upholstery made from best quality Italian fabrics by Dino Zoli and covered with Italian leather steering console in the wheelhouse. The furniture and wall paneling built in mahogany, satin finish with cream satin finish panels and mahogany high gloss trim.
Bathrooms and galley decorated with Madera Gold granite ornamentations connected with finest classic fittings and accessories provide atmosphere of real comfort onboard.
Floors in the wheelhouse, corridor and main saloon teak stripped plywood, carpet in the cabins, teak gratings in bathrooms. All ceilings with beams wooden construction, underside of plywood painted cream, beams and stringers varnished.
For safety reasons red lights on the floor level are installed throughout the vessel.

'Gentleman' has been equipped with rich set of domestic appliances and package of entertainment equipment what makes owner and his guests really enjoy long trips as well as everyday life onboard.

8.2. Cabin equipment

8.2.1. Owners cabin (fore ship)

- king-size bed with drawer and lockers underneath
- set of furniture: work desk with built-in TV pop-up system & pouffe
- shelves on the sides of bed
- 4 traditional ceiling lamps
- 2 hanged & 2 standing reading lamps by the bed
- 8 spotlights
- tall lockers/wardrobes on PS & SB
- CD-DVD player (car type) + speakers
- 2x 230V socket
- air-conditioning unit & controls

8.2.2. Owners bathroom

- toilet & bidet
- 2 ceramic washbasins
- granite wash top with mirror above
- locker under washbasin top
- shower cabin with drain
- 3 ceiling lamps
- 5 spotlights
- 3x 230V socket
- linen locker above the wash top level & large locker by the stairs
- teak shower grating
- washing machine
- set of bathroom accessories

8.2.3. Wheelhouse

- 1x double & 1x single seats for guests
- helmsman console
- pilot seat
- navigation table with a locker and large drawer underneath
- navigation table lamp
- steps to forward cabin with 4 lockers under
- steps to corridor aft with 4 lockers under
- steps to flybridge up
- handgrips along the steps
- 3 traditional ceiling lamps
- ceiling night lamp (red)
- CD player (car type) + speakers
- electric switchboard locker
- 230V socket
- air-conditioning unit & controls

8.2.3. Corridor

- 3 traditional ceiling lamps

8.2.4. Guest cabin I (SBS)

- 2 single beds with lockers under
- wardrobe/locker
- night locker between the beds
- 2 traditional ceiling laps
- 2 reading lamps by the beds
- window blinds
- 230V socket
- air-conditioning unit & controls

8.2.5. Guest bathroom I (accessible from Guest I cabin & corridor)

- toilet
- ceramic washbasin
- granite wash top with mirror above
- locker under washbasin top
- shower with teak grating and drain
- 1 ceiling lamp
- 3 spotlights
- 230V socket
- set of bathroom accessories

8.2.6. Guest cabin II (PBS)

- 2 single beds with lockers under & night locker between
- wardrobe/locker
- 2 traditional ceiling laps
- 2 reading lamps by the beds
- window blinds
- 230V socket
- air-conditioning unit & controls

8.2.7. Guest bathroom II

- toilet
- ceramic washbasin
- granite wash top with mirror above
- locker under washbasin top
- shower with teak grating and drain
- 1 ceiling lamp
- 3 spotlights
- 230V socket
- set of bathroom accessories

8.2.8. Galley

- granite worktop with lockers and drawers
- double stainless steel sink
- ceramic hob
- fridge
- freezer
- electric oven with microwave
- dishwasher
- galley extractor
- stainless steel top-loading locker under worktable
- 2x small hanging lockers
- 1 traditional ceiling lamp & 7 spotlights

- window blinds
- 2x 230V socket

8.2.9. Main saloon

- c-shaped sofa with lockers under, 2x armchairs separated with lockers & 2x pouffes
- folding swivel dining/coffee table
- steps inside yacht – main companionway
- locker by the steps
- 3x drawers under aft windowsill
- handgrips by steps stainless steel/teak
- window blinds
- media locker incorporating LCD TV (pop-up lifting) & DVD player (car type)
- 6 traditional ceiling lamps
- 8 spotlights
- 2x 230V socket
- air-conditioning unit & controls

9. Ventilation & air conditioning

Air-conditioning system by Dometic makes you enjoy your trips on Conrad Classic 58 even during hot sun in Mediterranean area. Central unit of capacity of 54.000 BTU supplies conditioned air to all cabins, salon and wheelhouse. The system working "in reverse" can be used also for heating of the interior during cold weather conditions.
Natural ventilation is by a set of stainless steel ventilation cowls with dorade boxes. The bathrooms are additionally ventilated with electric extractor fans by stainless steel grills with water traps.

10. Piping Systems

10.1. Fresh water system
Two integral fresh water tanks provide 5 236 liters of fresh water.
Hot water onboard is being supplied by two electric water heaters.
Connections needed for future installation of watermaker are provided.

10.2. Sea-water system
Sea-water system provides sea-water for cooling purposes of the engines, generator, air condition, and for firefighting system.

10.3. Sewage system
The integral holding tank has a capacity of 569 liters.

10.4. Bilge and Fire-fighting System
The boat is divided into following watertight sections:

- Fore – ship
- Main engine-room
- Aft ship

One big electric bilge pump placed in the engine-room pumps out the bilge-water of all the section and serves also alternatively as a fire-fighting pump. There is a quick-release hose connection in the deck locker over the engine room. The main bilge pump manifold is placed in the engine-room. Spare manual bilge pump is placed in a locker accessible from deck. Besides that all watertight sections are provided with small electric submersible pumps working in automatic mode.

11. Electrical installation

Main electrical installation is 24V DC. Besides that each cabin, main saloon, navigation area, galley area and main engine-room are equipped with 230V AC sockets. Main energy source for 24 V DC are two service battery bunks 580Ah each. The batteries can be recharged by battery charger supplied by generator or 32A shore connection. The separate 160Ah starting batteries for generator and main engines are charged directly from alternators suspended on the engines. 230V AC circuits are supplied alternatively by the generator, shore connection or batteries via inverter 24V/230V - 5000W.
Two 24V 65Ah emergency batteries are provided for navigation equipment operation.

12. Insulation

The general thermal insulation is placed over the steel construction of deck and topsides in living areas. The insulation is made of mineral wool covered with aluminum foil (Rockwool).
A60 class insulation on forward bulkhead of the engine room plus additional acoustic insulation made of mineral wool covered with aluminum foil.

13. Equipment specification

DECK

ITEM	MAKE	TYPE	Q-TY
Gangway – hydraulic	Opacmare	1402/18	1
Gangway gate	Custom		1
Electric mooring capstans	Maxwell	VC1500 24V	4
Windlass	Lofrans	Falkon	1
Anchor chain	Lofrans	12mm	1
Hatches	Foresti & Suardi	550 x 550	7
Flush hatches	Custom		4
Windows	Custom		
Portholes	Hollex		7
Main anchor	Toplicht	50 kg	1
Spare anchor	Toplicht	40 kg	1
Vent cowls	Toplicht		8
Searchlight	DHR	150CB024	1
Mooring fairleads	Custom		8
Mooring cleats	Custom		10
Stormrail stanchions	Custom		
Handgrip stanchions	Toplicht		
Mast	Custom		1
Tender launching boom & rigging	Custom		1
Tender (rowboat)	Samar	Pirania	1
Tender cradle	Custom	teak	1
Tender boom capstan	Andersen	12ST	1
Chain counter	Quick	CHC 1102M	1
Windscreen wipers	Vetus	SSAD	5
Bimini set with arches	Custom	ss/teak/ tent	1
Teak deck	Custom	12mm planks	
Flybridge benches	Custom	teak	2
Aft benches	Custom	teak	2
Position lights	Peters + Bey		
Teak trimming – wheelhouse	Custom	teak	
Teak trimming – window frames	Custom	teak	

MACHINERY

ITEM	MAKE	TYPE	Q-TY
Engines	Yanmar	4JH3-DTHE	2
Gearboxes	Yanmar	KMH4A1	2
Engine controls	Volvo Penta	EVC	2 / 3
Shaft lines	Amartech	40 mm	2
Propellers	Amartech	5-bladed	2
Air conditioning	Dometic	54.000 BTU	1
Generator	Mastervolt	Whisper 16 Ultra	1
Bow thruster	Side Power	240TCi	1
Funnel & mast lifting system	Gecea	Custom	1
Drinking water pump	Johnson	Aqua Jet Duo	1
Grey water pump	Johnson	Viking Power 16	3
Grey water tank	Johnson	Grey water tank	3
Black water pump	Johnson	Macerator pump	1
Bilge pump	Johnson	F4B-19	2
Bilge pump	Johnson	L4000	4
Deck wash/fire fighting pump	Rheinstrom	6E	2
Diesel transfer pump	Jabsco	23870	1
Main engine exhausts	Vetus	NLP75	2
Generator exhaust	Mastervolt	Delta	1
Fuel filters	Vetus	WS180	3

NAVIGATION & COMMUNICATION

ITEM	MAKE	TYPE	Q-TY
Navigation display	Simrad	CX44-E	1
Second navigation display	Simrad	CX34	1
Radar antenna	Simrad	DX60	1
Instruments	Simrad	IS12 COMBI	1
VHF	Simrad	RS87	1
VHF – second manipulator	Simrad		1
Autopilot	Simrad	AP50	1
Autopilot control	Simrad	AP51	1
Junction unit	Simrad	J50	1
Fluxgate	Simrad	RC25	1
Rudder feedback	Simrad	RF45X	1
Control	Simrad	QS50	2
Autopilot pump	Simrad	RPU300	1
Rudder angle indicator	Simrad	RI35 Mk II	3
AIS	Simrad	AI50	1
Navtex / Weather fax	Furuno	FAX-30	1
Windmeter	Simrad	IS12 WIND:S	1
Windmeter additional indicator	Simrad	IS12 WIND:R	1
GPS	Simrad	GPD	1
SimNet management	Simrad	RS80	1
Foghorn	Simrad	EHK80	1
Magnetic compass	Cassens & Plath	Boots 51	1
TV antenna	Glomex		1

ELECTRICS

ITEM	MAKE	TYPE	Q-TY
Distribution panel	Mastervolt		2
Shore connection system 32A	Mastervolt	Shore Power	1
AC system management	Mastervolt	AC manager	1
GMDSS Mass charger alarm interface	Mastervolt	Mastervision	2
Generator remote control	Mastervolt	DDC	1
Automatic AC transfer switch	Mastervolt	Systemswitch	1
Inverter	Mastervolt	Sine 24/5000	1
Battery charger	Mastervolt	Mass 24/75	2
Battery charger	Mastervolt	Mass 12/30-2	1
Battery charger	Mastervolt	Mass 25/25 DNV	1
Battery monitor	Mastervolt	Masterlink BTMIII	2
Battery separator	Mastervolt	Battery Mate 1603	1
Converter	Mastervolt	Magic 24/12-20A	2
Battery	Mastervolt	MVSV 2V	24
Battery	Mastervolt	AGMMV 12/160	3
Battery	Mastervolt	AGMNPL65-12	2

INTERIORS

ITEM	MAKE	TYPE	Q-TY
Mahogany combined joinery	Custom		
Upholstery	Custom		
Hardware	Foresti & Suardi		
Granite galley top	Custom	Madera Gold	
Granite bathroom tops	Custom	Madera Gold	
Ceramic bathroom washbasins	Kolo	Reflex	4
Teak gratings in showers	Custom		3
Upholstery fabric	Dino Zoli	Brera	
Console leather	Gruppo Mastrott		
Pilot seat	Exalto	Dakota 55	1
Water heater	Vetus	WH75	2
Toilet (Owner)	Tecma	Silence Short	1
Toilet (Guest I & II)	Vetus	WCS	2
Bidet (Owner)	Tecma	Bidet Short	1
Bathroom & galley faucets	Armatura Kraków	Retro Classic	3
Bathroom accessories	Colombo Design	Portofino	SET
Drinking water faucet/pump	Toplicht	Auckland	1
Masterkey access control	Kaba Gege GmbH	Custom	
Switches & sockets	Berker	Modul Plus	
Interior lighting	BCM / Palagi		

ENTERTAINMENT

ITEM	MAKE	TYPE	Q-TY
TV set (Owner)	Sony	KDL20S2030	1
Pop-up system	Custom		1
TV set (Salon)	Sony	KDL26S2010	1
Pop-up system	Custom		1
DVD player (Owner)	Sony	MEX-R1	1
DVD player (Salon)	Sony	MEX-R1	1
CD player (Wheelhouse)	Sony	MEX-BT2500	1
Speakers (Owner & Salon)	Canton	InCeiling 500	4
Speakers (Wheelhouse)	APart	CM608	2

DOMESTIC APPLIANCES

ITEM	MAKE	TYPE	Q-TY
Galley hood	Siemens	LI23030	1
Ceramic hob	Siemens	ET737501	1
Electric oven with microwave	Siemens	HB84K550	1
Fridge	Electrolux	ERN16300	1
Freezer	Electrolux	EUN12300	1
Dishwasher	Siemens	ESL46019	1
Washing machine	Whirlpool	AWG879D	1

SAFETY

ITEM	MAKE	TYPE	Q-TY
Liferaft 6-person	Eurovinil	ISO-9650	2
ER Fire extinguishing system	Sea-Fire	FD550M	1
CCTV camera in ER (IR)			1
Complete safety pack according to CE rules			1

PAINTING SYSTEM

ITEM	MAKE	TYPE
Interior varnishing	Hesse Lignal	Satin/high gloss
Exterior varnishing	International	Satin/high gloss
Hull painting	International	Mauritius
Superstructure painting	International	Oyster

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